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**Analysis of ATPases of putative secretion operons in the thermoacidophilic archaeon
Sulfolobus solfataricus**

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Supplementary Table S1. Sequences of primers used in this study

Primer location	Primer sequence (5'–3')
RT-PCR C-terminus SSO2684	cgaatacccaaattaagatatg
RT-PCR N-terminus SS02683	gtaagtttcatacgacgctg
RT-PCR C-terminus SSO2683	aacgctggatcagtagtgac
RT-PCR N-terminus SS02681	ctaagcacgccgaagaagta
RT-PCR C-terminus SSO2681	gcctttacactagctgtacc
RT-PCR N-terminus SS02680	ttgttcgatacggcggtg
RT-PCR C-terminus SSO2680	taggctggagtagggataag
RT-PCR N-terminus SS02679	ccgaagggttactcacgata,
RT-PCR C-terminus SSO2679	ccctagcagtgtctcaatac
RT-PCR N-terminus SS02678	tacaccctcgggtgtctagt
RT-PCR C-terminus SSO2323	tacatatccagtggcaggag
RT-PCR N-terminus SS02322	tgccaagggtatgcttatgc
RT-PCR C-terminus SSO2322	gcaatgagtgtgccgaaag
RT-PCR N-terminus SS02321	ttccttgccggccaaagta
RT-PCR C-terminus SSO2321	cattcaacaaggccaaactg
RT-PCR N-terminus SS02319	ctactactgagactcc
RT-PCR C-terminus SSO2319	ggaccagaagcaatatgg
RT-PCR N-terminus SS02318	tgccaacgtggcaactat
RT-PCR C-terminus SSO2318	taccgtccaccagatgtgt
RT-PCR N-terminus SS02316	cggctcggaggttctatca
RT-PCR C-terminus SSO2316	ttgccggaagaggatcttct
RT-PCR N-terminus SS02315	aacgatttcgggtggaactc
RT-PCR C-terminus SSO0570	cggctgatgctgctctatg
RT-PCR N-terminus SS00571	tagcaccagcacacgttctt
RT-PCR C-terminus SSO0571	ggctcaaagcttagctgagt
RT-PCR N-terminus SS00572	gtttcgctgcggttaacct
RT-PCR C-terminus SSO2384	tagttcacaaggcggatgtc
RT-PCR N-terminus SS02385	tctctaactcggccattcg
RT-PCR C-terminus SSO2385	ggtgaagagccaactaagga
RT-PCR N-terminus SS02386	cgaatgctggagcttcaacta
RT-PCR C-terminus SSO2386	ggcattggtggcatctattc
RT-PCR N-terminus SS02387	cctcataatccgcgacaatc
RT-PCR C-terminus SSO0121	gcctatacgcatggttcac
RT-PCR N-terminus SS00120	aagggtcagctaagggtaca
RT-PCR C-terminus SSO0120	gatctagaagagttcagtggt
RT-PCR N-terminus SS00119	gagccttggtctgctttcc
RT-PCR C-terminus SSO0119	agggcagttggcaactaga
RT-PCR N-terminus SS00118	atatctgtgtgctgccggtg
RT-PCR C-terminus SSO0118	aataccggcagcacacagat
RT-PCR N-terminus SS00117	cgtagcgctatttgcttg
RT-PCR C-terminus SSO0117	tcaactctggaccggattag
RT-PCR N-terminus SS00116	ggaaaatcgtttcagcagtgac
RT-PCR C-terminus SSO0116	tcgcatagagatggagaagc
RT-PCR N-terminus SS00115	tgaaggcgggttctaatggc
RT-PCR SSO0120 forward	agcaagaagatcacgtacta
RT-PCR SSO0120 reverse	ctggagtatcctctatggtaat
RT-PCR SSO0572 forward	atggttaccgcagacgaaac
RT-PCR SSO0572 reverse	accatcgcttaaagggtggtc
RT-PCR SSO2316 forward	atacagagccaccactac
RT-PCR SSO2316 reverse	tgctgaagaagtggagagac
RT-PCR SSO2387 forward	tagaggaagtggagagag
RT-PCR SSO2387 reverse	ggcaaccctatcaccatt
RT-PCR SSO2680 forward	ctccgcatcaaccgccgtat
RT-PCR SSO2680 reverse	acctagcgatgccagcctct
RT-PCR SSO2681 forward	GCGTGCTTAGGCATAGTA
RT-PCR SSO2681 reverse	CCACTGATGTAGCATAGG
RT-PCR SSO0118 forward	GCTGGGTGGTCTACTTTATG

RT-PCR SSO0118 reverse	AGTACTGCCCAGCAGTTA
RT-PCR SSO0117 forward	TCTCACTCATCGTTCCATTA
RT-PCR SSO0117 reverse	CAGAGTTTCCCTCAATGAAT
SSO0120 forward	CCCCCCTCGAGAGTGAGTATATTTTTCTGAACAAT GGTAC
SSO0120 reverse	CCCCCGAATTCTTAATGATGATGATGATGATGAATA GCTTTAGTTTCAAC
SSO0572 forward	GGG GGC CAT GGG GAT AAG GAT TTT GAA TGA TCT G
SSO0572 reverse	GGGGGGGTACCTTAATGATGATGATGATGATGATC TGACAGTTTAATCTTTATC
SSO2316 forward	CCC CCC ATG GGC TTT ATT GAA GAT TAC TTA TCT AGA TTT CCG G
SSO2316 reverse	CCCCCCTCGAGTTAATGATGATGATGATGATGAAT ATTCTTAGCATATCTTATCTCCTCC
SSO2387 forward	CCC CCA TGG GGG AGT GGT ATA TAA TGA G
SSO2387 reverse	CCC CCG AAT TCT TAT TCT TTT AAC TCT ATA GTT TTT GTC CTA GCC
SSO2680 forward	CCC CCC ATG GTA CTT ATT GGT AAA AAG AAA TCA CAC
SSO2680 reverse	CCCCCCTCGAGTTAATGATGATGATGATGATGGTC ACTCTTATCACC